

# Title: Method and apparatus for obtaining and displaying computerized tomography images by fluoroscopic imaging system

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Applicant(s) Name GE Medical Systems Global Technology Company, LLC

Address

Inventor(s) Name V.T. Jensen

Patent Agency Code 72001 Patent Agent wang yue zhang zhicheng

## Abstract

A medical imaging system (10) is provided for diagnostic and interventional procedures. The system includes a C-arm (12) having an x-ray source (36) and a receptor (34) for obtaining fluoroscopic images of a patient. The C-arm (12) is moved through an image acquisition path (A, B), along which at least first and second images are obtained. An acquisition module obtains multiple 2-D fluoroscopic images at desired positions along the image acquisition path and an image processor (16) constructs a 3-D volume of object data based on the 2-D fluoroscopic images. Patient information is displayed base upon the 3-D volume of patient information. A position tracking system (18, 20) is included to track the position of the receptor (34), patient (22) and (if included) a surgical instrument (24). The position information is used to control the time at which exposures (32) are obtained and (if include) to superimpose instrument graphical information on a display (48) with patient information.

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